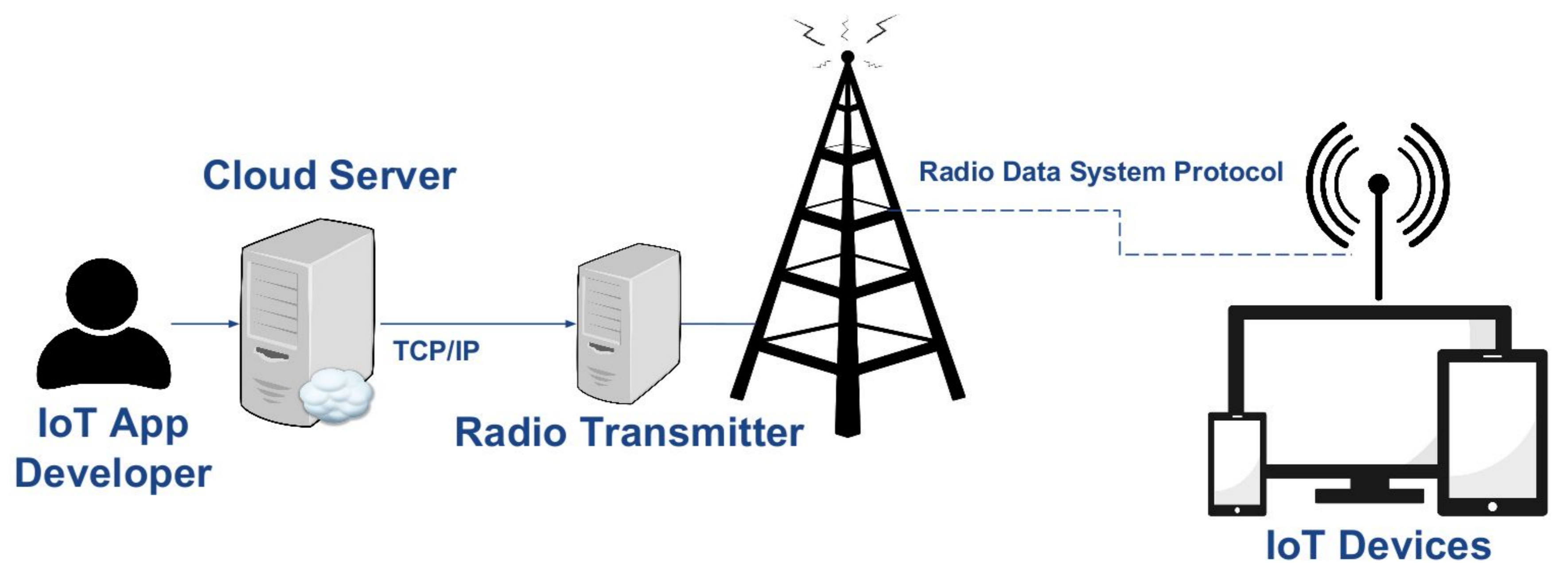


IoT Application Provisioning Service

How to realize a **software provisioning service** for IoT devices using **long-range broadcast communications**?

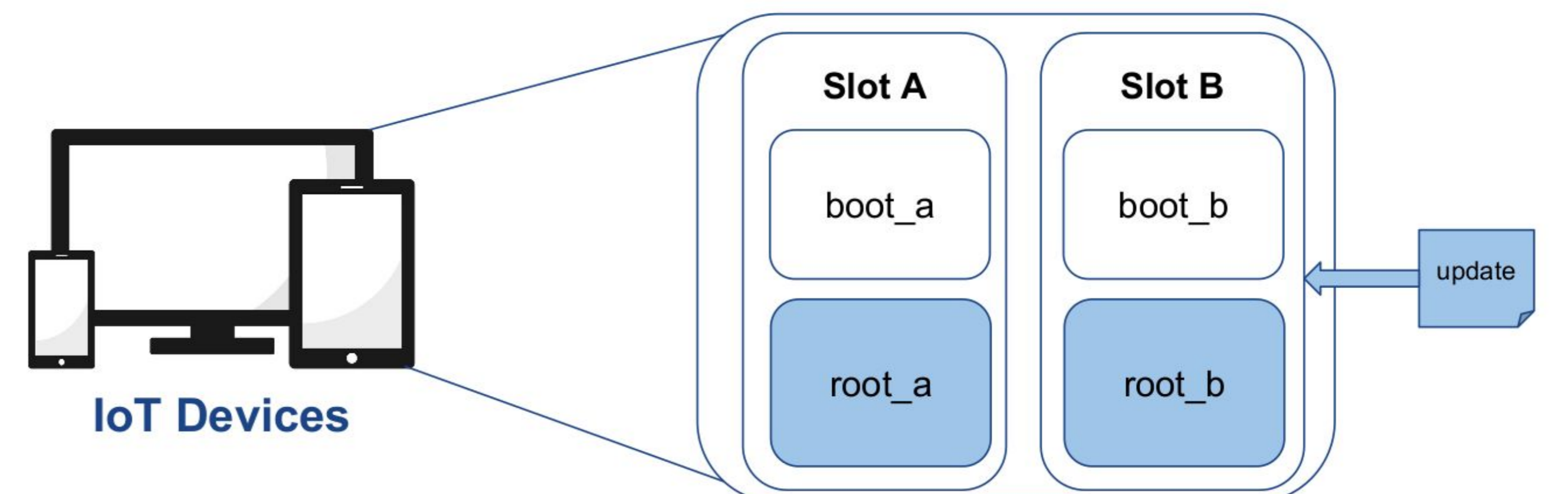
Proposed Solution

- Different **classes** of devices
- Each app is bound to a specific **class** of devices



Seamless updates

- **Software updates** in the device run in background: installation is transparent to the user

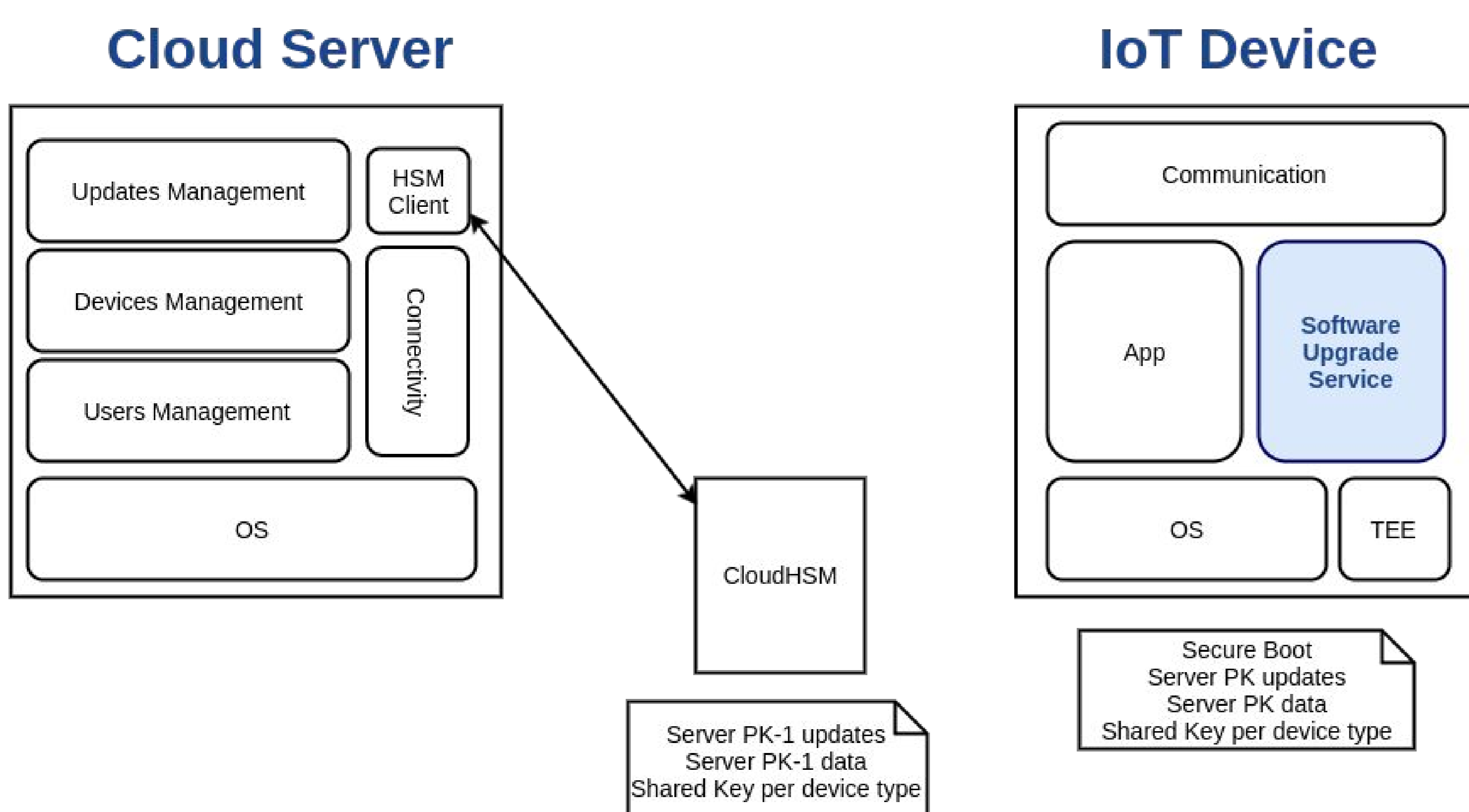


Security

- Two major requirements in the update process: **authentication** and **integrity**
- **Confidentiality** could also be provided for data transmission



Architecture



What is the value?

- The system does not rely on any specific communication technology as long as it is **long-range broadcast digital data**
- Cheap alternative to cellular solutions
- No Internet connection-related **security threats** on IoT devices